WASHINGTON STATE DEPARTMENT OF TRANSPORTATION - MATERIALS LABORATORY PO BOX 47365 OLYMPIA, WA 98504/STREET-1655 S. 2nd AVE TUMWATER, WA 98512

BITUMINOUS SECTION TEST REPORT TEST OF PAVING ASPHALTS GRADE: PG64-22 Antistrip: % LAB.IDENT. # CRADE: PG64-22 SUPPLIER: EXXON MOBIL Type: ASPH. LAB. # IDENT. # CREDER: EXXON MOBIL Type: ASPH. LAB. # BID ITEM. # IDENT. # CREDER: EXXON MOBIL Type: BID ITEM. # IDENT. # GRADE:	10 Bon 1730	/S OBITHE HILL	30301/811		00 0. 2110 11.		
ASCEPTANCE NO. ASSURANCE NO. CERT NO. DATE SAME 12  TEST: RESULTS: SPECIFICATIONS:  ORIGINAL PROPERTIES:  VISCOSITY (BROOKFIELD) @ 135 C, Pa s DYNAMIC SHEAR @ 64 C, kPa DYNAMIC SHEAR @ 62 C, % REPORT ONLY NSCR and Jnr testing performed at PG base grade temperature PAV AGED PROPERTIES: PAV AGING TEMPERATURE C DYNAMIC SHEAR @ 25 C, kPa DYNAMIC SHEAR @ 25 C, kPa DYNAMIC SHEAR @ 22 C, kPa CREEP STIFTNESS @ -12 C  "S", MPa "m"  OSC LABORATORY: Materials File SEGION: OLYMPIC CONSTRUCTION Engineer A3 X SUBSEQUENT PASSING TEST PSE: M. NEBERGALL EXXON MOBIL X  THOMAS E. BAKER, P.E. Materials Engineer  T-119 T-120 T-132 T-121 T-133	TEST OF PAV GRADE: SUPPLIER: SHIPPER: DATE RECD: SR NO: SECTION:	/ING ASPHALTS PG64-22 EXXON MOBIL EXXON MOBIL 06/25/2010 12 GRAND MOUND	Antistri Type: COUNTY: TO MAYTOWN	:		TRANS. LTR.# LAB.IDENT. # ASPH. LAB. # BID ITEM. # REGION #	10792D 000010792D A100365 108.02
ORIGINAL PROPERTIES:  VISCOSITY (BROOKFIELD) @ 135 C, Pa s	ACCEPTANCE			10.	CERT NO.	DATE SA	MPLED
VISCOSITY (BROOKFIELD) @ 135 C, Pa s DYNAMIC SHEAR @ 64 C, kPa DYNAMIC SHEAR @ 64 C, kPa RTFO AGED PROPERTIES: MASS LOSS AFTER RTFO, % DYNAMIC SHEAR @ 64 C, kPa REPORT ONLY MSCR @ 3.2 kPa @ C, % DIFFERENCE RECOVERY, % NON-RECOVERABLE COMPLIANCE, Jnr MSCR and Jnr testing performed at PG base grade temperature PAV AGED PROPERTIES: PAV AGING TEMPERATURE C DYNAMIC SHEAR @ 25 C, kPa DYNAMIC SHEAR @ 22 C, kPa REPORT ONLY CREEP STIFFNESS @ -12 C "S", MPa "m"  OSC LABORATORY: Materials File X Remarks: REGION: OLYMPIC Construction Engineer 43 X CONTRACT BASED ON PREVIOUS A Materials Engineer 43 X SUBSEQUENT PASSING TEST PE: M. NEBERGALL EXXON MOBIL X  THOMAS E. BAKER, P.E. Materials Engineer  43 T. Joseph R. DeVol  T-119 T-120 T-132 T-121 T-133							
(BROOKFIELD) @ 135 C, Pa s DYNAMIC SHEAR @ 64 C, kPa C.O.C. FLASH POINT, C  RTFO AGED PROPERTIES: MASS LOSS AFTER RTFO, \$ DYNAMIC SHEAR @ 64 C, kPa DIFFERENCE RECOVERY, \$ REPORT ONLY MSCR and Jnr testing performed at PG base grade temperature PAV AGED PROPERTIES: PAV AGING TEMPERATURE C DYNAMIC SHEAR @ 25 C, kPa DYNAMIC SHEAR @ 25 C, kPa DYNAMIC SHEAR @ 25 C, kPa CREEP STIFFNESS @ -12 C "S", MPa "m"  SOS LABORATORY: Materials File General File SY Materials File General File SY Materials Engineer Materials Engine Materials Engine Materials Engine Mat			========	=====		==========	=======
MASS LOSS AFTER RTFO, % DYNAMIC SHEAR @ 64 C, kPa  MSCR @ 3.2 kPa @ C, % DIFFERENCE RECOVERY, % NON-RECOVERABLE COMPLIANCE, Jnr MSCR and Jnr testing performed at PG base grade temperature PAV AGED PROPERTIES: PAV AGING TEMPERATURE C DYNAMIC SHEAR @ 25 C, kPa CREEP STIFFNES @ -12 C  "S", MPa "m"  OSC LABORATORY: Materials File General File REGION: OLYMPIC COnstruction Engineer Materials Engineer  T-119 T-120 T-132 T-121 T-133	(BROOKFI DYNAMIC S	ELD) @ 135 C SHEAR @ 64 C,	kPa			1.00 MINIMUM	
DYNAMIC SHEAR @ 25 C, kPa DYNAMIC SHEAR @ 22 C, kPa CREEP STIFFNESS @ -12 C  "S", MPa "m"  OSC LABORATORY:  Materials File General File REGION: OLYMPIC Construction Engineer Materials Engineer PE: M. NEBERGALL EXXON MOBIL  T-119 T-126 T-120 T-132 T-121 T-133  5000 MAXIMUM REPORT ONLY  SAMPLE APPROVED FOR USE ON T SA	MASS LOSS DYNAMIC S MSCR @ 3. DIFFERENC NON-RECOV MSC PAV AGED PR	S AFTER RTFO, SHEAR @ 64 C, 2 kPa @ CCE RECOVERY, VERABLE COMPLCR and Jnr teroperties:	kPa ;, % ; ;; ;;;;;;;;;;;;;;;;;;;;;;;;;;;;;	ormed a		2.20 MINIMUM REPORT ONLY REPORT ONLY REPORT ONLY	
"S", MPa "m"  OSC LABORATORY:  Materials File  General File  REGION: OLYMPIC  Construction Engineer  Materials Engineer	DYNAMIC S DYNAMIC S	SHEAR @ 25 C, SHEAR @ 22 C,	kPa kPa				ş.
OSC LABORATORY:  Materials File  General File  REGION: OLYMPIC  Construction Engineer  Materials Engineer  PE: M. NEBERGALL  EXXON MOBIL  T-119  T-120  T-120  T-121  T-133  Material does  Specification requirements.  X Remarks:  SAMPLE APPROVED FOR USE ON T  CONTRACT BASED ON PREVIOUS A  SUBSEQUENT PASSING TEST  X (2)  RESULTS.  X  THOMAS E. BAKER, P.E.  Materials Engineer  By: Joseph R. DeVol	"S",						M
T-120 T-132 T-121 T-133	OSC LABORAT Materials General Fi REGION: OLY Constructi Materials PE: M. NEBE	CORY: File le MPIC on Engineer Engineer	43	X X X X X(2)	Material does specification Remarks: SAMPLE APPROCONTRACT BASSUBSEQUENT RESULTS.	es on requirements OVED FOR USE ON SED ON PREVIOUS PASSING TEST AKER, P.E.	THIS
T-124 T-136 Date 07/15/2010 T-130 Telephone 360-709-5421 T-131	T-120 T-121 T-124 T-130	T-132 T-133			Date 07/15/2	2010	

T-134 T-173 1





## **Sample Information**

LAB ID No. Sample ID 0000010792d

Work Order

007465

Section

Grand Mound to Maytown Stage One - Add Lanes

Orgcode

434304

SR Number 012

**UOM** 

Contractor Remarks

Material

PG 64-22 - 9-02.1(4)A - 2008

**Bid Item No** 

108.02

Sampled At

Lakeside Centralia

Sampled By

John O'Dell

**Date Sampled** 

6/23/2010

**Quantity Represented** 

34.64

IA Sample No

Acceptance Sample No

12

Supplier Name

Exxon Mobil Portland OR.

**Used At Station** 

Asphalt % Requested

Manufacturer Spec Ref

Exxon Mobil

Mix ID No

Lot No

Size Type

Oil

**Heat No** 

Make

PG 64 -22

Reel No

**Cert No** 

15482

Roll No

Stockpile No

Ignition Furnace Calibration factor:

Grade Pit No PG 64 -22

State Field

## **Specifications**

Test Property	Field Result	Region Result	HQ Result	Jmf	Lower Limit	Upper Limit
C.O.C. Flash					230	
Point, C				27		
Viscosity at 135 C,					7.	3
Pa·s						
Original Dynamic		/			1	
Shear at 64 C, kPa						
% Mass Change						1
RTFO Dynamic					2.2	
Shear at 64 C, kPa						
PAV Dynamic						5000
Shear at 25 C, kPa			-			4
Creep Stiffness at -						300
12 C, "S", MPa						
Creep Stiffness at -					0.3	,
12 C, "m"						

**Project Engineer** 

Submitted by

Phone

Nebergall, MaryLou

John O'Dell

(360) 570-6767

RECEIVED RECEIVED

JUN 25 2010

STATE MATERIALS LABORATERIALS LAB